

Title (en)

Process for reducing tensile welding stresses in a nozzle in a nuclear reactor shell

Title (de)

Verfahren zur Entlastung von Zugspannungen durch Schweißen in einer Durchführung in einer Kernreaktorwandung

Title (fr)

Procédé de réduction des contraintes de tension de soudage dans une traversée de paroi de réacteur nucléaire

Publication

EP 0597244 B1 19970326 (EN)

Application

EP 93116116 A 19931006

Priority

US 97572792 A 19921113

Abstract (en)

[origin: US5278878A] A process is claimed for reducing tensile welding stresses in a nozzle in a nuclear reactor shell, such as a nuclear reactor head, wherein the nozzle has been welded to the nuclear reactor shell, which involves applying axial compressive loads on the free ends of the nozzle in an amount sufficient to substantially reduce the welding stresses. In some cases radial pressure can be imposed on the inner wall of the nozzle wherein the tensile welding stresses are located.

IPC 1-7

G21C 13/036; B23P 9/02

IPC 8 full level

G21C 13/00 (2006.01); **B23K 31/00** (2006.01); **G21C 13/036** (2006.01); **G21D 1/00** (2006.01)

CPC (source: EP US)

G21C 13/036 (2013.01 - EP US); **Y02E 30/30** (2013.01 - EP US); **Y10T 29/49863** (2015.01 - EP US)

Cited by

CN104854390A; US9975134B2

Designated contracting state (EPC)

BE CH DE ES FR GB LI SE

DOCDB simple family (publication)

US 5278878 A 19940111; DE 69309221 D1 19970430; EP 0597244 A1 19940518; EP 0597244 B1 19970326; JP H07314170 A 19951205

DOCDB simple family (application)

US 97572792 A 19921113; DE 69309221 T 19931006; EP 93116116 A 19931006; JP 29116493 A 19931027